7000-7049

ORIGINAL LOG BOOK OF THE "FISH HAWK"

UNITED STATES FISH COMMISSION

yr. 1899

STATION NUMBERS

Numbers 7000 to 7049



RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7000

Date, June 28th 1899.

Time of day, 8.10 PM; of tide, Ebb. 1/3

Locality, Massachusetts Bay

Exact position, Butler Ledge Light N.E. x N. 1/2 mile

Depth, 6 3/4 fathoms.

Nature of bottom, Mud

Dredging instrument used, 7 foot trawl

Direction of drift, O 1/4 E; distance, 3/4

Temperature of air, 61 therm. No., 102

" of surface water, " 12

" at depth of fathoms, "

" at bottom, " 171

Density at surface, 1022.6 temp.,

" at depth of fathoms, "

" at bottom, 1022 "

Number of salinometer, 7373

Barometer reading, 30.02

State of sky, Blue -

Direction of wind, North; force, 5

Rain, No

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, Fish Com.

Name and rank of commanding officer, Mal-

Jas. A. Smith US navy

Name and position of observer, D O'Milligan

Assistant navy

NOTES RELATING TO STATION NO. 7000

Above to tension Spur
Cross about 5 miles.
1 Temple Stair.
Above half of the shore
full of spawn & sproon
Complete quadrilateral of nucleus

V

Low -
Few old Brachiolaria
Great many Pentacrinites.
Dental Plates
Ossicles of crinoids

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7001

Date, June 22 1899

Time of day, 8.40 a.m. ; of tide,

Locality, Narragansett Bay

Exact position, Whale Rock

N.E 5/8 W 1 mile.

Depth, 10 4 fathoms

Nature of bottom, Muddy.

Dredging instrument used, 7 foot trawl

Direction of drift, S.W E ; distance, 5/8 mile

Temperature of air, 63° — therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 10×3. temp., 11.2

~~" at depth of fathoms, "~~ 150 C

" at bottom, 10×3.4 " 58°

Number of salinometer, 7 3×3

Barometer reading, 30.07

State of sky, Blue

Direction of wind, North ; force, 4

Rain, No

Direction of surface current, ; force,

~~" of bottom " ; force,~~

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, F. Com.

Name and rank of commanding officer, Mate

Jas. A Smith, U.S.N.R.S.

Name and position of observer,

J. W. Collins

Pharmacist U.S.N.

NOTES RELATING TO STATION NO. 701

Purple stars
Iceland scallops (last. times)
Horse fish
1 Common flounder
1 Horse fish
Yr skate (binacis?)
1 Eel
Egg strings Natica duplicata (?)
Eggs of Illyanassa.

Few
More brachiopoda than
previous haul
Gastropoda, same number
More clams than before
Crustacea
~~Pycnogonum~~
Pycnogonum

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7002

Date, June 22 -99

Time of day, 9.15 ; of tide,

Locality, Massafaunett River.

Exact position, Mate Rock

N. 3/4 E. 3/4 mile

Depth, 16 fathoms

Nature of bottom, Muddy.

Dredging instrument used, Deep Sea

Direction of drift, S.S.E. ; distance, 1/2 mile

Temperature of air, 63° Fahr therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1023.2 temp., 11° C

~~" at depth of fathoms, "~~

" at bottom, 1024.2 " 11° C 51.8° F

Number of salinometer, 7323

Barometer reading, 30.07

State of sky, Blue

Direction of wind, N E ; force, 3

Rain, no —

Direction of surface current, ; force,

~~" of bottom " ; force,~~

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, Fish Com.

Name and rank of commanding officer, Mate

Jas. A. Smith Mooney

Name and position of observer,

J. H. Milligan

Chairman Com

NOTES RELATING TO STATION NO. 7002

Caprella. not alive with them
& ground Lake.
1 Phyxis tennis
Dermal. flowers (anchor)
Live Tubia
Gorgonacea
Few Ophiuria.
" Eupa. Brittlestars
Coral, Sol, few
Anthozoa
Cancer irroata
1 Molgula
Ulmaria & Hydr.
Lebidonotus.
Sternaspis.
Protodrilus.
Tubularia croth.
Nephtys gracilis from tube

Tow.
× Polygordius. many
Nem Cham. Turbellaria
Gastrotricha the same
Copepods the same
Very few Diatoms.

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7003

Date, June 22 - 99.

Time of day, 9.05 ; of tide,

Locality, near Boynton Rge. L. H. ship

Exact position, Brown Vail

N. N. W. 6 fathom 2 miles 2 3/4 miles

Depth,

Nature of bottom, Mudy

Dredging instrument used, Tow Boat

Direction of drift, N. N. E ; distance, 1/2 mile

Temperature of air, therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1023. temp., 13°-

~~" at depth of fathoms, "~~

" at bottom, 1.023 " 12.5° C 54.5° F

Number of salinometer, 7373

Barometer reading, 30.08

State of sky, Blue

Direction of wind, N. E ; force, 3

Rain, no

Direction of surface current, ; force,

~~" of bottom " ; force,~~

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, Fish Com.

Name and rank of commanding officer, Mate

Jas. A. Smith USN

Name and position of observer,

J. N. Milligan

Chemist Assay

NOTES RELATING TO STATION NO. 7003

1 Sole Pat.
Serial Ecrinacea.
Purple stain. Anemone.
Two Squirrel hake.
Eamia brosmi
Eggs of Illionassa
" " Natica.
1 Buccinum.
Worms - ently - few
Lumbrineris

Few
Very few clams
No Lamellibr
No brachiolaria
Many crustacea.
Ently copepods.

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 700 H

Date, June 26 - 99

Time of day, 11. am : of tide, Flood

Locality, Midway between Cape Fear & Cape Fear Bar

Exact position, Cape Fear S. E. x S. 2 3/8 miles.

Depth, 5 ft

Nature of bottom, Sandy

Dredging instrument used, Tube from trawl.

Direction of drift, S. E. x E. : distance, 1/2 mile

Temperature of air, 78 therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0278 temp., 78°

" at depth of fathoms, "

" at bottom, 1.0283 " 67°

Number of salinometer, 13

Barometer reading, 29.9

State of sky, Blue - sky to clouds.

Direction of wind, Calm ; force, 0

Rain, No -

Direction of surface current, : force,

" of bottom " : force,

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, U. S. Fish Commission

Name and rank of commanding officer, Jas A. Smith Master

Name and position of observer, [illegible] Assistant

NOTES RELATING TO STATION NO. 700 K

Fulgar neritoides
Nerita Peloronta
Neverita
Lucina Mactra Nucula
Eggs of Fulgar 2
Limacina
Chiton
Serpula
Mytilus
Natica
Modiola Modiolus
Eggs of Neverita
Capulus
Eggs of Capulus formosus
Pelta Mutica
Eggs of Tubes of Sabellaria
Isopod
Quantity of dead Sea weed
Balanus
Cuttle
Worm with E. longicornis (?)
Eggs of Annelida
Leg Nymphon gracile
Pontella
Eggs of Amphipod
Pycnogonum

Never carried
Hermothoe
Pomatoceros triqueter
Nemertes
E. foliaceus in Limacina shell
Dead copepods
Empty eggs of Annelida
Annelida Lumbricoid
E. multiplex
Gammarus
E. multiplex

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 7005

Date, June 26 - 99

Time of day, 11.40 ; of tide, 3/6 flood

Locality, Vineyard Sound

Exact position, Cape Poge S. 3/4 W. 2 1/2 miles.

Depth, 11 fathoms

Nature of bottom, Sandy —

Dredging instrument used, Hunt hand trawl

Direction of drift, E. S.E ; distance, 1/2 mile

Temperature of air, 74° therm. No., 1015

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0276 temp., 20°-

" at depth of fathoms, "

" at bottom, 1.0273 " 19.5 C 67

Number of salinometer, 7375

Barometer reading, 29.94

State of sky, Blue - light-clouds.

Direction of wind, Calm ; force, 0

Rain, No

Direction of surface current, ; force,

" of bottom, ; force,

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, U.S. Fish Com.

Name and rank of commanding officer, Marshall H. Smith, Navy

Name and position of observer,

Asst. Surgeon

NOTES RELATING TO STATION NO. 7005

Pteropoda
Foraminifera
Radiolaria
Diatoms
Spicules of Sponges
Echinoderm remains
Ostracoda
Copepoda
Entomostraca
Cirripede larvae
Mollusca
Annelida
Crustacea
Fish remains
Fish eggs
Fish larvae
Plankton

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 7006 -

Date, Oct 26 - 79.

Time of day, 12.25 ; of tide. Flood

Locality, Vineyard Sound

Exact position, Cape Pogue, P. E.

3 3/4 knots

Depth, 7 fathoms

Nature of bottom, sand

Dredging instrument used, Tow boat line

Direction of drift, E. x S/4S distance, ½ mile

Temperature of air, 70 therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0232 temp., 19

" at depth of fathoms, "

" at bottom, 1.0225 " 67°

Number of salinometer, 7322

Barometer reading, 29.97

State of sky, Blue light clouds

Direction of wind, S. S. W. ; force, 1

Rain, No

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S.F.C. Fish Hawk

Service to which attached, U.S. Fish Com.

Name and rank of commanding officer, Master

Jno. A. Smith

Name and position of observer,

H. W. Elliott

Assistant

NOTES RELATING TO STATION NO. 7006,

Tail fan
Pyrgo depressa.
Spindle only - flat
2 Form after "
1 striata?
1 Hyalina - Spiral
Textularia -
Cap. fornicata
1 Miliola Sarsi.
E. Rotalina
Carinina eggs. Shells
Lituolae.
Pyrgo eggs
1 Glandina.
Nonionina shells with E. foetida
Young Cassidulina
E. Crisp. in Nonionina
Rotalia clavata empty
1 Globigerina
Triloculina, Miliola —
Cassidulina. Young specimen
Entire shell enveloped by E. Crisp.
Amphicoryna scalaris (Batsch)
Pleurostomella
Lagena sulcata —
Polymorphina
Nodosaria
Nodosaria Shells.
Fusulina tenuis.
Textularia
Pleurostomella.

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 7007

Date, June 16-99

Time of day, 1.30 ; of tide, High water

Locality, Vineyard Sound.

Exact position, East chop light

N. 88. x W'ly W. 1 5/8 miles.

Depth, 6 3/4 feet

Nature of bottom, Sand

Dredging instrument used, 7 feet beam trawl

Direction of drift, N. E. ; distance, 1/2 mile

Temperature of air, 78° therm. No. 1813

" of surface water. "

" at depth of fathoms. "

" at bottom. "

Density at surface. 1.0226 temp., 19.6°

" at depth of fathoms, "

" at bottom, 1.022. " 68 19°2

Number of salinometer. 7323

Barometer reading. 29.97

State of sky, Clear, light Clouds

Direction of wind, S. W. ; force. 2

Rain, No.

Direction of surface current, ; force,

" of bottom " ; force

Name of vessel, U. S. F. C. Fish Hawk

Service to which attached, U. S. F. Comm.

Name and rank of commanding officer, Capt

Jos. D. Smith, Worden

Name and position of observer, V. N. Wilson

1st Lieut

NOTES RELATING TO STATION NO. 107

Pelea Mutica
Tubipora
Astrea Forbesii
& Polycoma in Nautilus and
Turbinaria shells
Pongyra, Sand Dollars
Tentia Gulf weed
Star fish
Balanus Bugula
Pipe fish Rana
E. Imbricata Turbinaria
Cancer pomata
Shells of Mactra,
Squid &c. Crab claws
Asaphus compared E. Imbricata
Perkin shell.
Eyes of fish, by 6 long
tentacles. Pavonia
Red Myra - Porifera Sea Shell
Hydrozoans
Bullia Cotta.
Two hydroids
Coral
Cyprinodus formosus - Plant
& Rock sea

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 7008

Date, June 26 - 1899

Time of day, 7.10 : of tide. 1/2 ebb.

Locality, Vineyard Sound

Exact position, Edgartown Lt bears N. 3/4 E. 3/4 mile.

Depth, 7 fathoms

Nature of bottom, Sandy

Dredging instrument used, 7 feet beam trawl

Direction of drift, N.W. 3/4 W. Distance. 1/2 mile

Temperature of air, 68° Fahr. therm. No. 1013

" of surface water, "

" at depth of fathoms. "

" at bottom, "

Density at surface, 1.023 temp., 19°C

" at depth of fathoms. "

" at bottom, 1.023 " 68°F/20°C

Number of salinometer, 7321

Barometer reading, 29.97

State of sky, Clear, light airs

Direction of wind, S.W. ; force. 2

Rain. none

Direction of surface current, ; force,

" of bottom " ; force.

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, Fish Com

Name and rank of commanding officer, Jno A. Smith, Master

Name and position of observer, J. W. Milligan Physicist

NOTES RELATING TO STATION NO. 7005

Pulfhum Spongia
Marrocum Dilucidum
Suriacia Crassatum.
Rock rd.
Leptoclinum album.
Polycitypas
Tomitis flamula. Bryozoa.
E. pulchra, Cynthia
Cf. placea, Fulgar
Common crab
Pontelus Mimbrata Mimbrata
Lepidonotus E. amblyops
Kronelia radicula
Corbicula - Liquid
asperula,
Chiton apiculata,
Rhizo of Pennyfha.

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 709

Date, June 6 99.

Time of day, 2.30 ; of tide,

Locality, Vineyard Sound

Exact position, Edgartown Cliff light

N. ½ E. ¾ mile.

Depth, 10½ fath

Nature of bottom, Sandy

Dredging instrument used, Tanner Trawl

Direction of drift, N. E. ½ N. Distance, ½ mile

Temperature of air, 73° therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0276 temp., 19°

" at depth of fathoms, "

" at bottom, 1.0273 " 18.6° C

Number of salinometer, 7327

Barometer reading, 29.97

State of sky, Blue light clouds

Direction of wind, N. W. ; force, 1

Rain, No.

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U. S. F. C. Fish Hawk

Service to which attached, U. S. Fish Com.

Name and rank of commanding officer, Marin

Jno. A. Smith. Ll. Comdg

Name and position of observer,

NOTES RELATING TO STATION NO. 7004

Cyprina Islandica
Cerrina
Mod. Mod. shells.
Bryozoa,
Sulphur sponge. Marine shells.
Chiton.
Astacea, Bufula
Sea anemone
E. Pelicans - Bufula -
Limacina
Pycnogonum. Limacina helicina shells
Mulgrave, Rock at
Lim shells eff. Eggs of } Limacina Natica
Fucus hyperboreus (?) attach
Pelia. Vertex
Amphipoda, crabs, & shells
Cap. Lyon, Newcastle.
Scaphander shells,
Mopsea "
Tyrostoma & Cyamtra,
Escharella.
Leptolinum.

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 7010

Date, July 7 " 99

Time of day, 10.50 ; of tide,

Locality, Muzzard Shoal

Exact position, Gay Head, Osk. 3½ miles

Depth, 17 fathoms

Nature of bottom, Clean

Dredging instrument used, Tyler Hamilton

Direction of drift, East ; distance, 5/8

Temperature of air, 71 therm. No., 1012

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0273 temp., 18.5

" at depth of fathoms, "

" at bottom, 1.0273.4 " 16.2 C 61.0 F

Number of salinometer, 73 & 73

Barometer reading, 29.9

State of sky, Hazy

Direction of wind, S.W. ; force, 2

Rain, No

Direction of surface current, — ; force, —

" of bottom " — ; force, —

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, U.S.F. Comm.

Name and rank of commanding officer, Tanner

Name and position of observer, H. Hunter, Observer

McMillan

NOTES RELATING TO STATION NO. 7010

2 prospecta
Bar finca rodonis
Confused amidst Jam
Euphorbium pumilio
pulcher
Eggs of Amaea h (?)
Lic 1 basale
Pand. ft dilan.
1 Embolla
1 Lodia Hetwongsta.
Lanuca tuna.
5 Confusaria

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 7011

Date. ~~[illegible]~~ July 7 — 93

Time of day. 11.25 ; of tide.

Locality, Vineyard Sound.

Exact position, Hay Head N. x 20.1 [illegible]
3/4 [illegible]

Depth, 17 fms

Nature of bottom, Sand

Dredging instrument used, Dredge

Direction of drift, N.S.W. ; distance, 3/4

Temperature of air, 71.5 therm. No., 10 S

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 16.6

" at depth of fathoms, "

" at bottom, 1.0230 17° C

Number of salinometer, 7022

Barometer reading, 29.86

State of sky, Hazy

Direction of wind, S.W. ; force, 2

Rain, 0.70 —

Direction of ~~surface current~~; force,

" of bottom " ; force,

Name of vessel, [illegible] U.S. [illegible]

Service to which attached, U.S. Fish [illegible]

Name and rank of commanding officer, [illegible]
[illegible]

Name and position of observer, [illegible]

NOTES RELATING TO STATION NO. _____

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 70 : 2

Date, June 2 - 70

Time of day, 1.55 P.M.; of tide,

Locality, Vineyard Sound

Exact position, Nobska light bearing N.W. by W. 3/4 W. 3/4 mile

Depth, 3 fathoms.

Nature of bottom,

Dredging instrument used, 1 pair hand sounding leads

Direction of drift, N.E. by N. ; distance, 3/4

Temperature of air, 70° fair therm. No., 1113

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0272 temp., 21.7° C.

" at depth of fathoms, "

" at bottom, 1.0272 " 29.49 2 71 - 71

Number of salinometer, 7 3 2

Barometer reading, 29.99.

State of sky, Hazy Haze

Direction of wind, S.W. ; force,

Rain,

Direction of surface current, : force,

" of bottom " : force,

Name of vessel, U.S.F.C. Schooner Fish Hawk

Service to which attached, U.S. Fish Commission

Name and rank of commanding officer, Tarr

C. H. Smith, Pilot

Name and position of observer, T. Roulstone Assistant

NOTES RELATING TO STATION NO.

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7013

Date, July 10 — 99

Time of day, 12.45 ; of tide, 3d flood

Locality, Milford Haven

Exact position, Gay Head N. x W. 6 miles

Depth, 17 fathoms

Nature of bottom, Sandy rocky

Dredging instrument used, Sweet Seam hose

Direction of drift, N. E ; distance, 1/2

Temperature of air, 70 therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, " 60.° Fahr

Density at surface, 1.023.2 temp., 18.2 C

" at depth of fathoms, " 10.3° C

" at bottom, 1.024 " 60. Fahr

Number of salinometer, 7373

Barometer reading, 29.83

State of sky, Blue, cloudy

Direction of wind, N. W. ; force, 2

Rain, Dew —

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, U.S. Fish Com

Name and rank of commanding officer, Marsh

J.A. Bonnet, Master

Name and position of observer,

H.C. Ryder

U.S.F.C. Steamer

NOTES RELATING TO STATION NO. 703

Corbicula
1 Ecrasea
2 Very crabs
1 Annum of Some Sp
Euplandotes
Sp. Lucana
Sp. Californica
Meroon Shells
Eggs of Limax h.?
" " Helminea
Sea Ocean

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 7014

Date, July 10 99

Time of day, 1.55 p.m. : of tide, Near h. water

Locality, Vineyard Sound.

Exact position, Gay Head Point N.

Depth, 10 fathoms

Nature of bottom, Rocky, small rocks

Dredging instrument used, 1 foot beam trawl

Direction of drift, E x S. : distance, 1/2

Temperature of air, 69° Fah. therm. No., 10

" of surface water, ..

" at depth of fathoms, ..

" at bottom, ..

Density at surface, 1,0273 temp., 19° C

" at depth of fathoms, ...

" at bottom, 1,0286 " 60

Number of salinometer, 7327

Barometer reading, 29.82

State of sky, Blue, light clouds

Direction of wind, NW. : force, 2

Rain, none

Direction of surface current, : force,

" of bottom " : force,

Name of vessel, U.S.F.C. Fish Hawk

Service to which attached, U.S.F. Com.

Name and rank of commanding officer, Mal. J. A. Smith, USN

Name and position of observer, J. W. Titcomb Asst.

NOTES RELATING TO STATION NO. 7014

Oenothera
Prodeni, Lei, Costata
E, Lenf,
" Brook,
" Pitcheri
Rotera decora.
Viridow flavus
Eff can illinoiana.
" " Cuscuta Lem.
Heuron shut
Bryozoa.
Cafongula fornicata
by Smith
Notodon forbesii
Brit.
Snake from melvin

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 7015

Date. July 10 - 97

Time of day. 4.45 : of tide. High water

Locality. Mill pond Bay Head

Exact position. P. P. E 1 1/8

Depth, 12 fathoms

Nature of bottom, mussel bed.

Dredging instrument used, 7 foot beam trawl

Direction of drift, E by N ; distance. 1/2

Temperature of air, 68 therm. No., 1013

" of surface water, "

" at depth of fathoms. "

" at bottom, "

Density at surface, 1.0232 temp., 18.7

" at depth of fathoms. " 11.6

" at bottom, 1.0238 " 61.0 F

Number of salinometer, 223

Barometer reading, 29 ~~0~~

State of sky, Blue, light clouds

Direction of wind, N. W. ; force, 2

Rain, No

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel. U. S. F. C. Fish Hawk

Service to which attached, U. S. F. Com.

Name and rank of commanding officer. Mobley

J. W. Collins, Assistant

Name and position of observer.

J. W. Collins

Asst.

Dr a mound [illegible]

NOTES RELATING TO STATION NO. 761

Pecan Cir. Cokato
Eminence Park
Fabric (Asbestos)
Can, Frozen
C.S. Cap of Illinois
Drug
Fabrics heavy, bags no.
[illegible] Red brick mad
Large grounds, Mystic
Asbestos
Manufacturing
E, Broadway
C
Life car of steel
Corporate limits
Brass sulphur
Rusty flowers
Monument
Water

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 7916

Date, July 10 - 99

Time of day, 2.25 ; of tide, Nr Ebb.

Locality, Tuckerton

Exact position, Gay Head

P. 1/2 W. 1/8 mile

Depth, 12 fathoms

Nature of bottom, Mixed hrd & sand.

Dredging instrument used, 7 feet beam 2"

Direction of drift, East ; distance, 1/2

Temperature of air, 68° therm. No. 1013

" of surface water, "

" at depth of fathoms. "

" at bottom, "

Density at surface. 1.023 temp. 19.6

" at depth of fathoms, " 16.2

" at bottom. 1.023.6 " 61.5 f.

Number of salinometer, 7223

Barometer reading. 29.80

State of sky, Blue, light clouds

Direction of wind, N. W. ; force, 2

Rain. No

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, N.J.C. 7, U.S. Fish Hawk

Service to which attached, N.J.C. Com.

Name and rank of commanding officer, Lt. Smith Master

Name and position of observer, J. W. Miller Asst.

NOTES RELATING TO STATION NO. 7016

Fagaceae illawarrensis
Pittosporum
Ixiaceae
Rubiaceae
Pultenaea scaberula
Myrtaceae
Fabaceae (Faboideae)
Casuarina torulosa
Asteraceae (Mauve)
Apiaceae
Asteraceae
Sand dollar
Eucalyptus Boormanii
Fabaceae
Xanthorrhoea
Xanthorrhoea Australis
Pteridium esculentum
Grass tree
Lepidosperma
Banksia spinulosa
Dianella caerulea var. producta
Acacia

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 7017

Date, June 10–99.

Time of day, 3:10 p.m. ; of tide, 1/4 —

Locality, Vineyard Sound

Exact position, Gay Head N. 1/2 W.
4 1/2 miles

Depth, 8 1/2 fath.

Nature of bottom, Sand, Rock

Dredging instrument used, Sweetser

Direction of drift, E. by N. ; distance, 5/8

Temperature of air, 68 therm. No. 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, 10.2 " ~~65.1~~ ~~18.4~~

Density at surface, 1.023 temp., 19° C

" at depth of fathoms, " 16.° C

" at bottom, " 65.° F.

Number of salinometer, 7325

Barometer reading, 29.96

State of sky, Blue Cloudy

Direction of wind, S.W. ; force, 1

Rain, no

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S.F.S. Fish Hawk

Service to which attached, U.S.F.C. Comm. Woods

Name and rank of commanding officer, J. A. Dennis U.S.N.

Name and position of observer, H. C. Ellis

NOTES RELATING TO STATION NO. 7017

Homarus Americanus
& Modiolus Modiolus
Penn Mutuals
Narr Wharf
Cove, Jamestown

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 7018

Date, July 11-99.

Time of day, 10.30 ; of tide, - 1/2 flood

Locality, Ent. to Muskegat Ch.

Exact position, Mack. L. Bar stat.

N. E 1/2 E. 8 subs

Depth, 17 ft bottom

Nature of bottom, Sandy

Dredging instrument used,

Direction of drift, S.W. ; distance, 1/2

Temperature of air, 69.0 therm. No., 1013

" of surface water. "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0263 temp., 19.5

" at depth of fathoms, " 13.7

" at bottom, 1.0262 " 53.4

Number of salinometer, 7323

Barometer reading, 30.09

State of sky, Blue

Direction of wind, N.W. ; force, 2

Rain, not

Direction of surface current, ; force,

" " of bottom " ; force,

Name of vessel, U.S.F.C. Fish Hawk

Service to which attached, U.S.F. Comm.

Name and rank of commanding officer, Lt. Smith Navy

Name and position of observer, H. D. Wallace

NOTES RELATING TO STATION NO. 7018

Lt Dark Shrimp
Opposite Key (Myers Shore)
Sand dollar
Lutrivitta.
Rocky Florida.
E ~~coquina~~ Beach
Small coquina
Lucky Point 28
Red locust shrimp.
Small natica
Pachya tin Costata.
~~Pachya tin~~
Cyprea Vul.
Worm worker
Yes one illumana
Cone Borgatis.
Cyclonassa

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 7019

Date, July 11—99

Time of day, 11.20 ; of tide, 3/4 flood

Locality, East to Mouse, Ch

Exact position, Mx L on. Stat.

NE. E 10 Miles

Depth, 17 fathoms

Nature of bottom, Rocky

Dredging instrument used, Net beam Trawl

Direction of drift, D. S.W. ; distance, 3/4

Temperature of air, 69° Therm. No. 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 19.2°

" at depth of fathoms, " 13.5°

" at bottom, 1.026 " 53° F.

Number of salinometer, 7320

Barometer reading, 30.10

State of sky, Blue

Direction of wind, S.W. ; force,

Rain, None

Direction of surface current, ; force,

" of bottom, " ; force,

Name of vessel, U.S.F.C. Str Fish Hawk

Service to which attached, U.S.F.C.

Name and rank of commanding officer, Marvin

H. M. Smith U.S.N.

Name and position of observer,

H. W. Wilson

NOTES RELATING TO STATION NO. 7019

Name Village.
Rocky Harbour
Bathurst
Hydrovic
Petit Lac Cove
Exposure Notice Harbour
G.S. Burin
asterias Fortunii
Sand Dab
Cancer irroratus

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 702

Date, July 11 99

Time of day, 12. M. ; of tide. 2/4 Flood

Locality, Entr. to Newt. Chan.

Exact position, Mark I. sor. Dist

N. E × E ½ E 9 miles

Depth, 15 fathoms

Nature of bottom, Sand

Dredging instrument used, 7 feet B. Tr

Direction of drift, N. ; distance, ½

Temperature of air, 69° F. therm. No. 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0230 temp., 19°.

" at depth of fathoms, " 58.7°F.

" at bottom, 1.0242 "

Number of salinometer, 7325

Barometer reading, 30.10

State of sky, Clear

Direction of wind, N. ; force, 2

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S.C.S. Fish Hawk

Service to which attached, U.S.F. Com

Name and rank of commanding officer, Marbury

H. C. Smith

Name and position of observer, H. C. Kumlien

NOTES RELATING TO STATION NO. 7020

Rain Erosion
Protein Tea
Natica
E. Branham
Alaska
Hemitrypa Imbricata
Capsa
E. J. Case Illinoian
Natica

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 7021

Date, July 11—99

Time of day, 1 pm ; of tide, High

Locality, Entr. Thames. Channel

Exact position, Mark 6, 030/0.64. 8 x 2 - 8 3/4 m

Depth, 5 1/2 fathoms

Nature of bottom, Sand

Dredging instrument used, 7 Fur hom tr.

Direction of drift, S. S. E. ; distance, 1/2

Temperature of air, 69.6 therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0226 temp., 20.4° C

" at depth of fathoms, " 68.7° F

" at bottom, 1023 " 64.7

Number of salinometer, 7323

Barometer reading, 30.10

State of sky, 1/2 fine

Direction of wind, S.W. ; force, 2

Rain, No

Direction of surface current, ; force,

" of bottom, " ; force,

Name of vessel, U.S.L.H. Tr. Thames

Service to which attached, L. H.

Name and rank of commanding officer, Mch

Name and position of observer,

NOTES RELATING TO STATION NO. 7021

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 70 [illegible]

Date, July 17 = 9.

Time of day, 11 a.m. ; of tide, Ebb

Locality, Vineyard Sound

Exact position, Gay Head, 0.4 N.

Old Dredge

Depth, 12 [illegible] fathoms

Nature of bottom,

Dredging instrument used, Tow boat

Direction of drift, N.E. by E. ; distance, 3/4 mile

Temperature of air, 76° fathoms thermo. No. 1013

" of surface water, "

" at depth of fathoms. "

" at bottom, "

Density at surface, 1.020 temp. 76.0° C

" at depth of fathoms, " "

" at bottom, 1.023.3 " 62.3°

Number of salinometer, 323

Barometer reading, 30.02

State of sky, Blue

Direction of wind, N.W. : force, 2

Rain, No

Direction of surface current, : force,

" of bottom " : force,

Name of vessel, U.S.F.C. Fish Hawk

Service to which attached, U.S.F.C. Com. Marshall

Name and rank of commanding officer, J. A. Smith, Master

Name and position of observer, J. W. Nelson, U.S. Asst.

NOTES RELATING TO STATION NO. 7022

Lonicera
hybrids
Lily cult.
Saint Odilon
Rosa Eglanteria
Ac. Fortunei
E. Bungeanus
Cat. Flava. Sf.
Hakea
Fulgens
Window farm plants
Myrtus
Plectranthus Coetatus
Orchis

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 7023

Date, July 12 - 99

Time of day, 11:25 ; of tide, ½ flood

Locality, Vineyard Sound

Exact position, Gay Head S. ½ W. 3 miles

Depth, 14 fms

Nature of bottom,

Dredging instrument used, Tanner & Ford

Direction of drift, E.N.E. ; distance, 1 mile

Temperature of air, 73 therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.024 temp., 19° C

" at depth of fathoms, " 66.2 F

" at bottom, 1.0242 " 61.7 F

Number of salinometer, 2325

Barometer reading, 30.00

State of sky, Blue

Direction of wind, S.W. ; force, 2

Rain, None

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, U.S.F. Com.

Name and rank of commanding officer, Capt. Tanner U.S.F.C.

Name and position of observer, R.W. Shufeldt

NOTES RELATING TO STATION NO. 7023

Rosa Fermana
Pancrazio
Egg case of Murex
" " Tritons
Conus flavus
Antiquus Fortunii
Cap. Haue.
Natica
Cypraea Bistrinata
Cyp. Pallida
Ky Dorb.
Lamarck.
Turbo
Mytilus
Aquit.

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 7024

Date. July 12 97

Time of day, 11.50 ; of tide. 3/4 flood

Locality, Vineyard Sound

Exact position, Wes Head

P. of, Gay Head 2 3/4 miles

Depth, 15 fathoms

Nature of bottom,

Dredging instrument used, Tan Yard

Direction of drift, E. ; distance, 1/2 mile

Temperature of air, 74 therm. No., 1015

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 19° C

" at depth of fathoms, "

" at bottom, 1.022 " 17.8°

Number of salinometer, 7023

Barometer reading, 30.00

State of sky, Clear

Direction of wind, N.W. ; force, 2

Rain, No

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, U. S. F. Comm.

Name and rank of commanding officer, Tanner

J. A. Smith, Master

Name and position of observer, N. Wallace

NOTES RELATING TO STATION NO.

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 1035

Date. July 12th 99

Time of day. 7:30 : of tide. 3/4 flood

Locality. Nuyaquo River,

Exact position. Ship Head

0/6 m. 3/4 across

Depth. 15

Nature of bottom. Sandy

Dredging instrument used. 7 feet V. Trawl

Direction of drift. E & W. ; distance. 3/4

Temperature of air. 73° therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface. 1.023 temp., 18.8° C

" at depth of fathoms, " "

" at bottom. 1023 " 65°F

Number of salinometer. 73

Barometer reading. 29.97

State of sky. Rain

Direction of wind. S. W. : force.

Rain, No

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel. U.S.F.C.S. Fish Hawk

Service to which attached, U. S. F. Com.

Name and rank of commanding officer, Tanner

Name and position of observer, J. A. Wheeler

NOTES RELATING TO STATION NO.

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 702

Date, July 12 1899

Time of day, 5.00 P.M. ; of tide, Ebb

Locality, Newport Town

Exact position, Near Rebecca Rebecca light N.N.E. 3/4 mile

Depth, 12 feet

Nature of bottom, small rocks.

Dredging instrument used,

Direction of drift, W.S.W. ; distance, 1/2 mile

Temperature of air, 72° F. therm. No. 103

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0224 temp., 72°

" at depth of fathoms, " "

" at bottom, 1023 " 68° F.

Number of salinometer, 7324

Barometer reading, 29.92

State of sky, Blue

Direction of wind, N.W. ; force, 2

Rain, no

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, U.S.F. Com.

Name and rank of commanding officer, Nash

J.A. Smith Lieut Commdg

Name and position of observer,

[illegible]

NOTES RELATING TO STATION NO. 7026

Rgmd 3
Red Sea with
Spirogyra
Cymbella
and
Algae.

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 7027

Date, July 12-99

Time of day, 4.00 P.M.; of tide, 1/2 ebb

Locality, Vineyard Sound.

Exact position, Between W. & W. 1 mile & 1 mile

Depth, 6 fathoms

Nature of bottom, Sandy

Dredging instrument used, ~~Tanner~~ Trawl

Direction of drift, W. by N.; distance, 1/2 mile

Temperature of air, 72 ~~fahr~~ therm. No., 1025

" of surface water, ..

" at depth of fathoms, ..

" at bottom, ..

Density at surface, 1.0224 temp., 71.3°

" at depth of fathoms, ..

" at bottom, 1023 .. 69.2°

Number of salinometer, 7325

Barometer reading, 29.91

State of sky, Clear

Direction of wind, S.W.; force, 2

Rain, No

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U. S. F. C. Fish Hawk

Service to which attached, U. S. F. Comm

Name and rank of commanding officer, Master J. A. Smith, Master

Name and position of observer, H. M. Wilson

NOTES RELATING TO STATION NO.

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 7024

Date, July 15-99

Time of day, 10.55 ; of tide. ½ Ebb.

Locality, Mugford Ground

Exact position, Bay Head N.E. ¼ E. 1 1/16 miles.

Depth, 16½ fath.

Nature of bottom, Muddy.

Dredging instrument used, 15 ft. beam

Direction of drift, W. ½ S. ; distance, ½ mile

Temperature of air, 80° F. therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 19° C

" at depth of fathoms, " "

" at bottom, 1024.2 " 67½° F.

Number of salinometer, 7323

Barometer reading, 29.97

State of sky, Blue light clouds

Direction of wind, S.W. ; force, 2

Rain, no

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, U.S.F. Com.

Name and rank of commanding officer, Capt. Tanner

Name and position of observer, H. M. Whitford Asst.

NOTES RELATING TO STATION NO.

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No., 7029

Date, July 15-99

Time of day, 11:40 ; of tide,

Locality, Vineyard Sound

Exact position, Gay Head

Depth, 17½ fath. Q. X W. ½ N. 1½

Nature of bottom, Mud & Sand

Dredging instrument used, Tow b. Track

Direction of drift, W.S.W. ; distance, ½ mile

Temperature of air, 75 therm. No., 10 2

" of surface water, "

" at depth of fathoms, "

" at bottom, " 28.2

Density at surface, 1022 2 temp., 28.2

" at depth of fathoms, "

" at bottom, 1022 2 " 25.1° 25.2

Number of salinometer, 32 3

Barometer reading, 29.95

State of sky, Clear, b. clouds

Direction of wind, E.N.E. ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO.

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 7030

Date. July 15-99

Time of day. 12.55 ; of tide,

Locality, Mud Island Pond

Exact position, Staystead

D. 1/10 M. 3/4

Depth, 12 feet

Nature of bottom, Muddy

Dredging instrument used, Yeatman Frame

Direction of drift, E. x N. ; distance, 1/2

Temperature of air, 73.5 therm. No. 1913

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface. 1.024 temp. 30.6° C

" at depth of fathoms; "

" at bottom, 1.024 " 15.7° C 87.6° F

Number of salinometer, 7320

Barometer reading, 29.82

State of sky, Blue, light Clouds

Direction of wind, E. x S. : force, 2

Rain, None

Direction of surface current, : force,

" of bottom, : force.

Name of vessel, U.S.F.C. Fish Hawk

Service to which attached, U.S.F. Com.

Name and rank of commanding officer, Lieut. L. A. Smith, U.S.N.

Name and position of observers, J. Pennington Ph. Norris

NOTES RELATING TO STATION NO.

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No., 7031

Date, July 15 99

Time of day, 1.20 : of tide,

Locality, Vineyard Sound

Exact position, Gay Head P. & Jr. 3 1/2 miles

Depth, 8 fath.

Nature of bottom, Gravelly

Dredging instrument used, Sharpless Tool

Direction of drift, E. N. E. ; distance, 1/2 M.

Temperature of air, 72.5° F. thermo. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1022 temp., 70.6° F

" at depth of fathoms, " 18.

" at bottom, 1023 " 53.6

Number of salinometer, 7323

Barometer reading, 29.85

State of sky, Blue, Cloudy

Direction of wind, E. N. E ; force, 2

Rain, No

Direction of surface current, : force,

" of bottom " ; force,

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, U. S. F. Com.

Name and rank of commanding officer, Capt. J. A. Smith Master

Name and position of observer, J. W. Milligan Assistant U.S.F.C.

NOTES RELATING TO STATION NO.

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 7032

Date. July 15 - 99

Time of day, 3.15 : of tide,

Locality, Vineyard Sound

Exact position, Gay Head L. 3/4 M. 2/3

Depth, 10 fathom

Nature of bottom, Rocky

Dredging instrument used, Tyler Hamilton

Direction of drift, N E x N : distance 1/2 M.

Temperature of air, 74° F. Thermo. No., 1013

" of surface water, "

" at depth of fathoms. "

" at bottom, "

Density at surface, 1.0216 temp., 22.0 C

" at depth of fathoms, " "

" at bottom, 1.0228 " 6.8° C

Number of salinometer, 7323

Barometer reading, 29.86

State of sky, Mostly light Clouds

Direction of wind, E. force, —

Rain, No

Direction of surface current, : force,

" of bottom " : force,

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, U.S.F. Com

Name and rank of commanding officer, Capt. L. A. Lucas

Name and position of observer, J. W. Milligan Pharmacist

NOTES RELATING TO STATION NO.

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 7033

Date, July 20 - 99

Time of day, 9.50 : of tide.

Locality, Tongue Point Round

Exact position, Nebraska Pt. NW x N.

3/4 Mile

Depth, 5 1/4 fathoms

Nature of bottom, Rocky, Gravelly

Dredging instrument used, 7 feet beam board

Direction of drift, W. ; distance, 1/2

Temperature of air, 72° F. therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.022 temp., 20.7° C

" at depth of fathoms, "

" at bottom, 1.0224 " 21° C 69.3° F

Number of salinometer, 7320

Barometer reading, 29.95

State of sky, Clear

Direction of wind, E. ; force, 2

Rain, No -

Direction of surface current, / ; force

" of bottom " ; force,

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, U.S.F. Com.

Name and rank of commanding officer, Mr. Smith

Name and position of observer, [illegible]

NOTES RELATING TO STATION NO.

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 7030

Date, July 20th 1899

Time of day, 10 30 ; of tide,

Locality, Mugu Bound

Exact position, Mouth of Ft. McR 1 mile

Depth, 6 fathoms

Nature of bottom, Gravelly

Dredging instrument used, West bar rover

Direction of drift, W. ; distance, 1/2 mile

Temperature of air, 72° F. therm. No., 1018

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.022 temp., 21° C

" at depth of fathoms, " 19.6° C

" at bottom, 1.022 " 69 1/2° F

Number of salinometer, 73 18

Barometer reading, 29.95

State of sky, Blue

Direction of wind, E. ; force, 2

Rain, No

Direction of surface current, / ; force, /

" of bottom " ; force,

Name of vessel, U. S. F. C. S. Str. Hassler

Service to which attached, U. S. F. Com Mahan

Name and rank of commanding officer, J. A. Smith Ensign

Name and position of observer, J. A. Hulbert Assistant Engineer

NOTES RELATING TO STATION NO.

Pecten Ten Cretata,

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 7035

Date, July 20 - 94

Time of day, 1.40 pm ; of tide,

Locality, Vineyard Sound

Exact position, Gay Head South 3 m

Depth, 15 1/2 fathoms.

Nature of bottom,

Dredging instrument used, 9 feet from Trawl.

Direction of drift, N.W. by E. ; distance, 3/4 m

Temperature of air, 68.5° Fahr. therm. No., 1073

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0276 temp., 19.5° C.

~~" at depth of fathoms, "~~

" at bottom, ~~none taken.~~ " 14.4° C. 58° Fahr.

Number of salinometer, 732

Barometer reading, 29.98.

State of sky, Haze

Direction of wind, E. N. E. ; force, 1

Rain, No

~~Direction of surface current, ; force,~~

~~" of bottom " ; force,~~

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, U. S. F. Com

Name and rank of commanding officer, Tanner

J. A. Smith, Master

Name and position of observer, H. C. Phillips

Assistant, Woods

NOTES RELATING TO STATION NO. 7035

Preliminary Conductor

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. ~~[illegible]~~ 7036

Date, July 7th 99

Time of day, 3.10 p.m. : of tide,

Locality, Vineyard Sound.

Exact position, Gay Head D. 3/4 m.
3 3/4 m.

Depth, 17 fath.

Nature of bottom,

Dredging instrument used, 9 feet beam trawl

Direction of drift, E.N.E. ; distance, 1/4 m.

Temperature of air, 69° f. therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 18.8° C

~~" at depth of fathoms, " 16.8° C~~

" at bottom, 1.0234 " 61.2° f.

Number of salinometer, 7373

Barometer reading, 29.98

State of sky, Blue light

Direction of wind, E.N.E. ; force, 2

Rain, No.

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO. 7036

Many algae
Fair bed of Zostera
Sand — small rocky - docks
1 U Spot —
2 Flounders
Large blue crowds.
4 Windsor Beans
Clio, Formicata with fine Purple
Epiflemma
Thyca — dead shells
Sand Tat.
Winter Flounder,
3 Atlantic macularia

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 7036

Date. July 21st 99

Time of day, 11.15 a.m.; of tide,

Locality, Suzzmi Bay.

Exact position, Bird Isld Lt. N. ¾ E. 5¾ m.

Depth. 8 fathoms

Nature of bottom, Muddy

Dredging instrument used, 9 foot B. Trawl

Direction of drift, E x S. ; distance. ¾ miles

Temperature of air, 68.5 therm. No., 1073

" of surface water, "

" at depth of fathoms. "

" at bottom, "

Density at surface, 1.0212 temp., 77.0° F.

" at depth of fathoms, " "

" at bottom, 1.0218 " 70.4° F.

Number of salinometer, 7032.6

Barometer reading, 30.16

State of sky, Hazy

Direction of wind, E. ; force, 3

Rain, no —

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, U. S. F. Com.

Name and rank of commanding officer, Capt. Tanner

Name and position of observer, J. D. Mulligan Fishculturist, Wm.

NOTES RELATING TO STATION NO. 7037

Foster.
Yatora
Capsicula f.
Syeschytes from T. Barnhartia
Penn Dollar.
Asteridea
Asplenia candata

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 7038

Date, July 24th 99

Time of day, 11.45 a.m. ; of tide.

Locality, Buzzards Bay

Exact position, 73rd Lobo Light

N. 3/4 E. 3 3/4 miles

Depth, 8 fathoms.

Nature of bottom. Muddy

Dredging instrument used. 7 feet hook.

Direction of drift, E. by E. ; distance. 3/4 mile

Temperature of air, 70 therm. No. 1013

" of surface water. "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.021, temp., 73.6° F.

" at depth of fathoms, "

" at bottom. 1.0214 " 72° F.

Number of salinometer, 7023

Barometer reading, 30.13

State of sky, Blue

Direction of wind, E ; force, 3

Rain. None

Direction of surface current, ; force,

" of bottom " ; force.

Name of vessel. U.S.F.C. Fish Hawk

Service to which attached, U.S.F.C. Commission

Name and rank of commanding officer. Mate

J. G. Smith, Warren

Name and position of observer;

H. M. Hopkins

NOTES RELATING TO STATION NO. 7038

Lymnaea.
Cyclas sp.
Gonyaulax deups.
Noctiluca.
Fulgar carina.
Limnia
Isotea
Cap.

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 1027

Date, May 20th 99

Time of day, 12 M. ; of tide,

Locality, Bonnybel's Ledge

Exact position, Bm Island Light E. ½ N. 1½ miles

Depth, 3 fathoms

Nature of bottom, Mud

Dredging instrument used, Hook & Line

Direction of drift, S. 20° E. ; distance, 1 mile

Temperature of air, 70° therm. No., 103

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0204 temp., 24° C

" at depth of fathoms, "

" at bottom, 1.020 " 73° F.

Number of salinometer, 73 23

Barometer reading, 30.16

State of sky, Blue

Direction of wind, E ; force, 2

Rain, No

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, U. S. F. Com.

Name and rank of commanding officer, Tanner

J. W. Smith.

Name and position of observer,

H. M. Wilcox

H. C. Yarrow

NOTES RELATING TO STATION NO. 7039

Chiton
Actaeta
Litorina
Rissoina ofon.
Adeorbis Forbesii

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 70 Co

Date, July 24 - 99

Time of day, 2.05 pm ; of tide,

Locality, Pungo and Bay

Exact position, 13rd Inlet beg to N. E x E. 7 miles

Depth, 4 fathom

Nature of bottom, mud, Dredge

Dredging instrument used, ~~steam~~

Direction of drift, N. E ½ E ; distance, ½ mile,

Temperature of air, 69 °F, therm. No., 5.3

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.020 temp., 73° C

~~" at depth of fathoms,~~

" at bottom, 1.0206 " 73.5 F.

Number of salinometer, 7320

Barometer reading, 30.16

State of sky, Blue, light clouds

Direction of wind, E ; force, 4

Rain, no

~~Direction of surface current, ; force,~~

~~" of bottom " ; force~~

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, U.S.F.C. Com

Name and rank of commanding officer, Mahan Norman

Name and position of observer, H. B. Smith. H. B. Williams

NOTES RELATING TO STATION NO. 7040

Algae
Sub. sponge + red sponge
Cup. fruticata
" Yoldia
Nucula. dead shell
Pecten
Orbitella

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 704

Date. July 29. 99

Time of day, 10.25 a.m. ; of tide.

Locality. Long Island Sound.

Exact position. Eatons Neck light S.E. 2 miles

Depth, 10½ fathoms.

Nature of bottom, Muddy

Dredging instrument used, Steam dredge

Direction of drift, S.W. ; distance, ⅝ miles

Temperature of air, 77.8° F. therm. No. 1013

" of surface water, "

" at depth of fathoms. "

" at bottom, "

Density at surface, 1.018 temp. 77.2°

" at depth of fathoms. " 71.0°

" at bottom, 1.018.8 " 68.5°

Number of salinometer, 7315

Barometer reading, 29.96

State of sky, Cloudy

Direction of wind, ; force.

Rain, No

Direction of surface current, ; force.

" of bottom " ; force.

Name of vessel, U.S.F.C.S. Fish Hawk

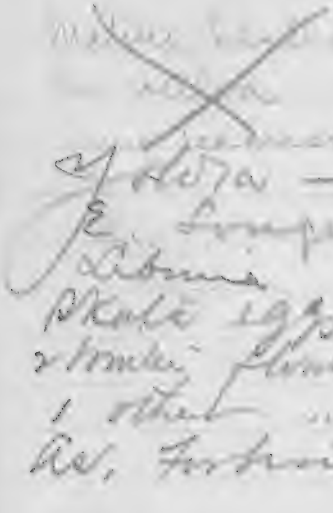
Service to which attached, U.S.F. Comm.

Name and rank of commanding officer, Tanner

Lieut. Frank Manning

Name and position of observer, H. Dunbar

NOTES RELATING TO STATION NO. 704



RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 70 a

Date. July 29 - 29

Time of day. 11:45 ; of tide.

Locality. Long Island Sound -

Exact position. Execution Rock light

" DNE. 2/4 m.

Depth. 9 fathoms.

Nature of bottom. Muddy

Dredging instrument used. Hoot tool + dredge

Direction of drift. South ; distance. 1/2 knot

Temperature of air. 79 therm. No. 1013

" of surface water. "

" at depth of fathoms. "

" at bottom. "

Density at surface. 1.018 temp.

" at depth of fathoms. "

" at bottom. 1.018 " 69.7°F

Number of salinometer.

Barometer reading. 29.93

State of sky. Cloudy

Direction of wind. ; force.

Rain. No

Direction of surface current. ; force.

" of bottom " ; force.

Name of vessel. U. S. F. C. Steamer Hawk

Service to which attached. U. S. F. Comm.

Name and rank of commanding officer. Mate

J. A. Smith. Steering

Name and position of observer. J. O'Sullivan

Pharmacist U.S.N.

NOTES RELATING TO STATION NO.

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 70 & 3

Date, July 29. 1874

Time of day. 11 A.M. : of tide.

Locality, Long Island

Exact position, Eatons Neck Light

S. W. x W. 1/2 W. 6 miles

Depth, 18 1/2 fathoms

Nature of bottom, Muddy

Dredging instrument used, 7 feet hand & Dredge

Direction of drift, N. E. N.; distance, 1 mile

Temperature of air, 79. therm. No. 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.018 temp., 73.1° F

" at depth of fathoms, " "

" at bottom, 1.018.6 " 67.5 F

Number of salinometer, 7513

Barometer reading, 29.9

State of sky, Blue. Cloudy

Direction of wind. : force.

Rain. no

Direction of surface current, : force.

" of bottom " : force.

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, U. S. F. Com.

Name and rank of commanding officer, Mahl

J. A. Smith Lieut.

Name and position of observer, R. Rathbun

Assistant, Wash.

NOTES RELATING TO STATION NO.

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 20 CC

Date, July 29. 99

Time of day, [redacted] ; of tide,

Locality, Long Island Sound, Sale Rock light

Exact position, S. Pr x 0 1/2 E. 7 1/4 nm

Depth, 7 1/4

Nature of bottom, Mud Sy

Dredging instrument used, Scow

Direction of drift, D. x N. distance, 1/2 mile

Temperature of air, 77° F therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.018 temp., 73°

" at depth of fathoms, " "

" at bottom, 1.018 " 69° F.

Number of salinometer, 7023

Barometer reading, 29.90

State of sky, Clear, light haze

Direction of wind, ; force,

Rain, No.

Direction of surface current, ; force,

" of bottom " " ; force,

Name of vessel, U. S. T. C. & T. Tug Hawk

Service to which attached, U. S. T. Corps

Name and rank of commanding officer, Maker

D. A. Lowe Lieutenant

Name and position of observer,

J. R. Upshur.

Lieutenant U.S.A.

NOTES RELATING TO STATION NO.

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 7 C 5

Date, July 26

Time of day 3.20 ; of tide

Locality, Off Fish Island

Exact position, Eastern Point

D. & Nr. 4 3/4 m

Depth, 12

Nature of bottom. Sand

Dredging instrument used. Hand Dredge

Direction of drift, N. & S. ; distance, 1/2

Temperature of air, 76° F. ; therm. No. 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.018 temp. 73°

" at depth of fathoms, " 24.6° C. 76° F.

" at bottom, 1.0284 "

Number of salinometer,

Barometer reading, 29.5

State of sky, Blue, light clouds

Direction of wind, ; force.

Rain, No

Direction of surface current, : force.

" of bottom " : force.

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, U. S. F. Com.

Name and rank of commanding officer. Tanner

Name and position of observer. Thomas

NOTES RELATING TO STATION NO.

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 7046

Date, July 29

Time of day, 4 1/2 : of tide. Ebb

Locality, Off Isle Mark

Exact position, Point Reck Light House N. ¾ E. 5 miles

Depth, 13 fathoms.

Nature of bottom, Hard sandy

Dredging instrument used,

Direction of drift, N. 3/4 W. : distance. 1/2 mile

Temperature of air, 76. therm. No., 1013

" of surface water, "

" at depth of fathoms. "

" at bottom, "

Density at surface, 1.018 temp., 73.0

" at depth of fathoms, "

" at bottom. 1.0186 " 71. 67.8°F.

Number of salinometer. 7313

Barometer reading. 29.85

State of sky. Blue Hazy

Direction of wind, : force.

Rain, None

Direction of surface current, ; force,

" of bottom " ; force.

Name of vessel, No. 1 U.S. Fish Hawk

Service to which attached, U.S. Fish Com.

Name and rank of commanding officer. Marbury

J. A. Smith

Name and position of observer.

H. C. Yarrow
M.D.

NOTES RELATING TO STATION NO.

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 207

Date, August 7th 1899

Time of day, 4 P.M. ; of tide.

Locality, Narragansett Bay

Exact position, Key Head Light S. ½ W. 3 miles

Depth, 11 fathoms

Nature of bottom, Sand, Mud

Dredging instrument used, Sweet's tank

Direction of drift, [illegible] ; distance, 1¼ miles

Temperature of air, 72° Fah. therm. No., 1013

" of surface water, "

" at depth of fathoms. "

" at bottom, "

Density at surface, 1022.7 temp., 21° C

" at depth of fathoms, "

" at bottom, 1025 " 69.3° F

Number of salinometer, 7323

Barometer reading, 29.93

State of sky, Blue, light cloud

Direction of wind, ; force,

Rain, No

Direction of surface current, ; force,

" of bottom, ; force,

Name of vessel, U.S.F.C. Fish Hawk

Service to which attached, U.S.F.C. Steamer

Name and rank of commanding officer, Master J. A. Smith

Name and position of observer, J. W. McGregor

NOTES RELATING TO STATION NO.

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 7048

Date, Sept. 4th 1899

Time of day, 12.00 ; of tide.

Locality, Vineyard Sound

Exact position, New Head Lgt. S. ½ E. 2 ½ miles

Depth, 13 fath

Nature of bottom, Rocky & muddy

Dredging instrument used, Sea sled & Dredge

Direction of drift, East ; distance, ½ mile

Temperature of air, 70 therm. No., 1023

" of surface water, "

" at depth of fathoms. "

" at bottom, "

Density at surface, 1023 r temp., ~~70.3 F.~~

" at depth of fathoms. "

" at bottom, 1023b " 70.3 F.

Number of salinometer, 7373

Barometer reading, 29.93 r

State of sky, Blue, light clouds

Direction of wind, ; force.

Rain, NR

Direction of surface current, ; force.

" of bottom " ; force.

Name of vessel, Walter C. Fish Barge

Service to which attached, U. S. F. Com. Fisheries

Name and rank of commanding officer, J. W. Collins Master

Name and position of observer, [illegible] Assistant U.S.F.C.

NOTES RELATING TO STATION NO.

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 70 F 9

Date, Aug 4 1899

Time of day, 12.50 ; of tide,

Locality, Vineyard Sound

Exact position, Gay Head Lgt S ½ E 2 ¼ Miles

Depth, 13 fathoms.

Nature of bottom, Sandy, shelly

Dredging instrument used, 7 foot Bank Dredge

Direction of drift, E by N ½ ; distance, 5/8 mile

Temperature of air, 71° fahr. therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1023 temp., 20.2 C

" at depth of fathoms, " 18° C

" at bottom, 1.0232 " 66° F

Number of salinometer, 7325

Barometer reading, 29.82

State of sky, Blue Light clouds

Direction of wind, ; force,

Rain, None

Direction of surface current, ; force,

" of bottom " ; force,

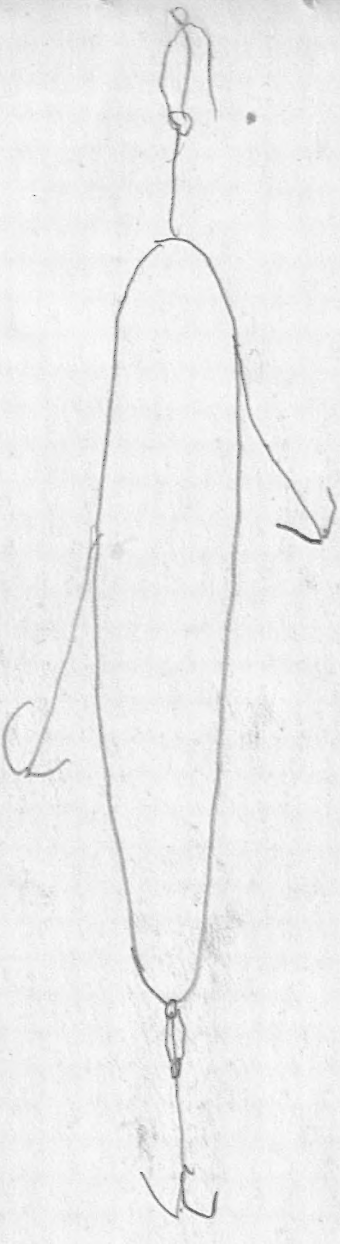
Name of vessel, U.S.C.S. Bank Dredge

Service to which attached, U.S.F. Com.

Name and rank of commanding officer, Lieut J. A. Tardy USRCS

Name and position of observer, H. M. Gilbert Asst.

NOTES RELATING TO STATION NO.



10.
5.
5.
5.
28.
5.90
1.71
#60.61

#7.00

1.85
3.90
2.00
5.90